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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/834,506	04/12/2001	Sung Soo Chung	CISCO-3024	5788
7	7590 03/18/2004		EXAMINER	
David B. Ritchie			CHAUDRY, MUJTABA M	
	Thelen Ried & Priest LLP P.O. Box 640640 ART UNIT PAPER NUMB		PAPER NUMBER	
San Jose, CA 95164			2133	2
			DATE MAILED: 03/18/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

			11-				
	Application No.	Applicant(s)	(/v				
	09/834,506	CHUNG ET AL.					
· Office Action Summary	Examiner	Art Unit					
	Mujtaba K Chaudry	2133					
The MAILING DATE of this communication app	ears on the cover sheet with the	correspondence ad	Idress				
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on 12 Ap							
· <u>-</u>	action is non-final.						
3) Since this application is in condition for allowar	·		e ments is				
closed in accordance with the practice under E	x parte Quayle, 1955 C.D. 11, 4	33 O.G. 213.					
Disposition of Claims							
4) Claim(s) 1-26 is/are pending in the application.							
4a) Of the above claim(s) is/are withdraw	wn from consideration.						
5)☐ Claim(s) is/are allowed.							
6)☐ Claim(s) is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) <u>1-26</u> are subject to restriction and/or 6	election requirement.						
Application Papers							
9) The specification is objected to by the Examine	r.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
	or the defined depice not receiv	cu.					
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
2) Notice of Preferences Cited (PTO-092) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	ate					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal 6) Other:	Patent Application (PT	O-152)				

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DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-8, 13, 25 and 26, drawn to testing AC coupled interconnects of a circuit having at least one driving IC and at least one receiving IC, wherein each IC has a plurality of boundary scan cells, classified in class 714, subclass 727.
- II. Claims 9-12, drawn to a computer readable medium having stored thereon computer-executable instructions, classified in class 714, subclass 741.
- III. Claims 14-16, drawn to a test signal generator configuration, classified in class714, subclass 738.
- IV. Claims 17-24, drawn to the configuration of a boundary scan cell, classified in class 714, subclass 729.

Inventions are distinct, each form the other because of the following reasons:

Inventions Group I, a method for testing AC coupled interconnects of a circuit having at least one driving IC and at least one receiving IC, wherein each IC has a plurality of boundary scan cells and Group II, a computer readable medium having stored thereon computer-executable instructions for performing a method for testing are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination

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as claimed because Group I does not necessarily require a computer readable medium for testing AC interconnects. The subcombination has separate utility such as in a single networked environment.

Inventions Group I, a method for testing AC coupled interconnects of a circuit having at least one driving IC and at least one receiving IC, wherein each IC has a plurality of boundary scan cells and Group III, a AC_test_marker signal generator configuration are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the signal generator of Group III could be practiced with another materially different product.

Inventions Group I, a method for testing AC coupled interconnects of a circuit having at least one driving IC and at least one receiving IC, wherein each IC has a plurality of boundary scan cells and Group IV, a boundary scan cell configuration are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown:

(1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the configuration of the boundary scan cell of Group IV could be practiced with another materially different product.

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Because these inventions are distinct for the reasons given above and the search required for Group II is not required for Group I, restriction for examination purposes as indicated is proper.

Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group III, restriction for examination purposes as indicated is proper.

Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group IV, restriction for examination purposes as indicated is proper.

Examiner made an attempt in contacting the attorneys of record, David Ritchie and Steve Robins on March 15, 2004 for an oral election, but was unsuccessful.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143). Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mujtaba K Chaudry whose telephone number is 703-305-7755. The examiner can normally be reached on Mon-Thur 7:30 - 6:00 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Albert DeCady can be reached on 703-305-9595. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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March 15, 2004

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